DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W12 IE2 Three-Phase Product code: 16435611

Frame : W63

Output : 0.18 kW (0.25 HP)

Poles : 4 Frequency : 50 Hz Rated voltage : 230/400 V Rated current : 1.06/0.608 A L. R. Amperes : 5.29/3.04 A

LRC : 5.0

No load current : 0.876/0.503 A

Rated speed : 1400 rpm Slip : 6.67 % Rated torque : 1.23 Nm

Locked rotor torque : 240 % Breakdown torque : 240 % : F Insulation class : 1.00 Service factor

Design : N

Moment of inertia (J)

100% Output 50% 75%

Efficiency (%) 58.0 63.0 64.7 Power Factor 0.46 0.58 0.66

: 30s (cold) 17s (hot) Locked rotor time Temperature rise : 80 K Duty cycle : S1

Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l.

Protection degree : IP55

Cooling method : IC411 - TEFC

Mounting : B34T

Rotation¹ : Both (CW and CCW)

Noise level² : 47.0 dB(A) Starting method : Direct On Line

Losses at normative operating points (speed;torque), in percentage of rated output power

: 0.0006 kgm²

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
63.6	58.6	66.5	45.4	34.0	31.8	21.4

Notes:

This revision replaces and cancel the previous one, which must be eliminated.

(1) Looking the motor from the shaft end.

(2) Measured at 1m and with tolerance of +3dB(A).

(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

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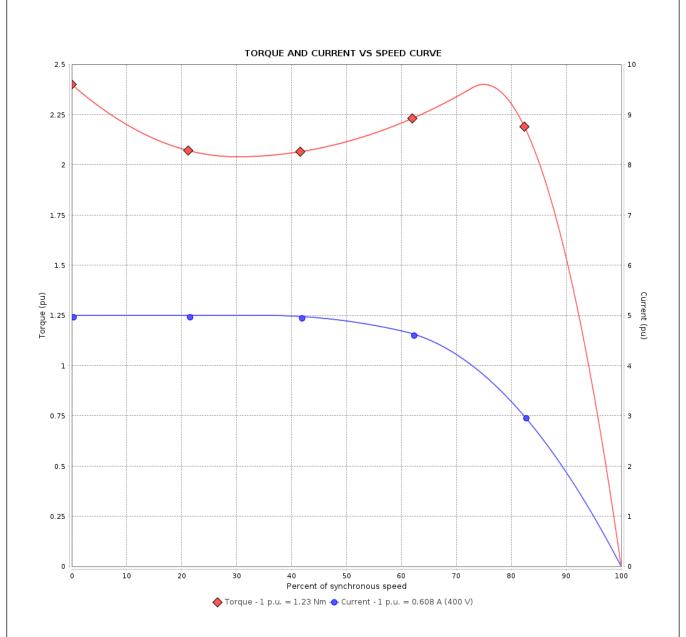
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : W12 IE2 Three-Phase Product code : 16435611



Performance	: 230/400 V 50 Hz 4P		
Rated current	: 1.06/0.608 A	Moment of inertia (J)	: 0.0006 kgm²
LRC	: 5.0	Duty cycle	: S1
Rated torque	: 1.23 Nm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1400 rpm	Design	: N

Locked rotor time : 30s (cold) 17s (hot)

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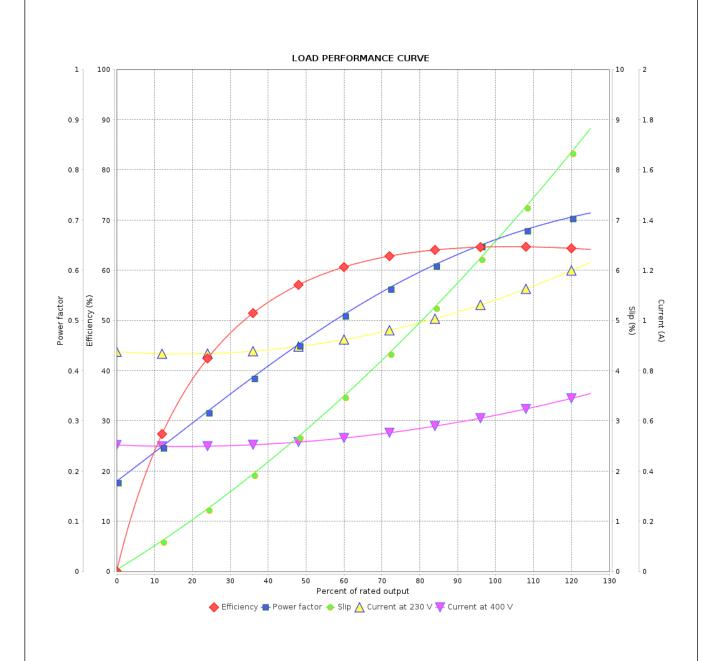
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W12 IE2 Three-Phase Product code : 16435611



Performance	: 2	: 230/400 V 50 Hz 4P					
Rated current	:1	: 1.06/0.608 A Moment of		f inertia (J)	: 0.0006 kgm²		
LRC	: 5	: 5.0		:	: S1		
Rated torque	: 1	.23 Nm Insulation class		: F			
Locked rotor torque	e : 2	240 %	Service factor		: 1.00		
Breakdown torque	: 2	: 240 %		Temperature rise Design			
Rated speed	: 1400 rpm		Design				
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



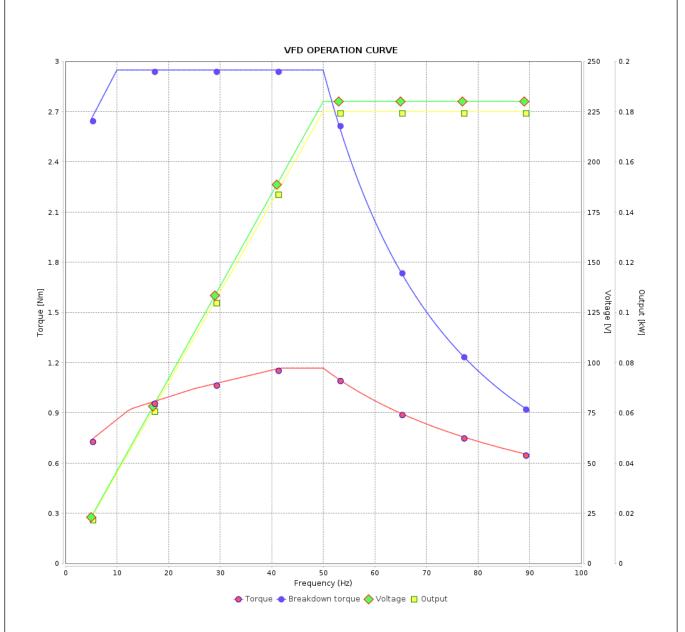
Customer :

Checked by

Date

12/12/2023

Product line : W12 IE2 Three-Phase Product code : 16435611



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Performance		: 230/400 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ::	1.06/0.608 A 5.0 1.23 Nm 240 % 240 % 1400 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ector	: 0.0006 kgm² : S1 : F : 1.00 : 80 K : N		
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